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**THE DIRECTOR OF CENTRAL INTELLIGENCE**

WASHINGTON, D.C. 20505

1 September 1982

**National Intelligence Council**

MEMORANDUM FOR: Counselor James L. Buckley  
Department of State

VIA: Richard Aherne

FROM: Maurice C. Ernst  
National Intelligence Officer for Economics

SUBJECT: Data on European and Japanese Exports of Oil and  
Gas Equipment to the USSR

1. Unfortunately, even roughly comparable data on exports of oil and gas equipment to the USSR are not available. The statistics provided by Commerce are obtained from four or five digit SITC trade categories which cover a great many things besides oil and gas equipment. Indeed, for some countries oil and gas equipment may be a very small part of these export categories. On the other hand, a great deal of oil and gas equipment may be lost in categories not specified in the Commerce memo. Export data at the seven- or eight-digit level are compiled by the US and some other countries, but cannot be compared.

2. We have tried to attack this problem from another angle-- information on Soviet orders for Western oil and gas equipment. The attached tables lay out the information we have on orders for 1972 through mid-1982, for eight categories of oil and gas equipment in each of the Big Seven countries and for all other OECD countries as a group. The orders data come from reasonably specific information. In a few instances they probably cover some services and possibly some construction work, in addition to machinery and equipment. However, they are, I believe, the best measure we have of the relative state and capability of the individual countries exporting oil and gas equipment to the USSR.

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Maurice C. Ernst

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Attachments,  
As stated

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USSR: Orders of Oil and Gas Equipment from Western Firms <sup>1</sup>

(Milion US \$)

	All Western Countries										Mid- 1982
	1972	1973	1974	1975	1976	1977	1978	1979	1980	(78)	
Total	343.6	193.2	541.4	493.0	2,044.0	300.2	792.2	189.8	338.6	3,332.5	259.2
Pump and gas ft equipment	6.0	45.9	5.0	33.5	70.9	5.3	367.8	10.7		9.1	
Drilling and well completion equipment	1.3	.4	13.3	86.2	80.6	61.9	220.7	27.7	198.3	57.8	82.8
Exploration equipment	1.3	20.8	.4	20.2	119.7	49.8	9.0	51.4	1.5		
Processing equipment <sup>2</sup>	74.4	3.3	87.8	230.9	612.4	33.0	29.2	1.7	6.2	138.0	69.5
Compressors & turbines	72.2	31.2	259.7		798.5	1.4		2.8	-	1,794.7	
Other pipeline equipment	77.7	92.3	173.2	111.0	324.8	109.5	115.2	73.1	74.4	636.7	89.9
Construction equipment	68.0	0			24.7	14.9	41.2		58.2	694.7	
Other	2.7	4.3	2.0	1.2	12.4	24.4	9.1	22.4		24.1	17.0

<sup>1</sup> Excluding viet linepipe purchases. Series also probably does not capture purchases of Western services orders for replacement and spare parts, which tend to be small and ad hoc.

<sup>2</sup> Includes orders of Soviet natural gas and petroleum refining and processing facilities.

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## USSR: Orders of Oil and Gas Equipment from Western Firms

(Million US \$)

	U.S.										Mid- 1982
	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	
Total	86.3	75.5	76.2	73.3	321.4	82.5	367.9	34.5	20.9	54.3	--
Pump and gas lift equipment	6.0	45.9		33.5	45.0		66.8	2.7			
Drilling and well completion equipment	1.3	2.4	9.3	15.7	41.7	40.7	201.7	9.0	19.4	14.3	
Exploration equipment	1.3	3.0	.4	.2	18.0	39.0	9.4	15.2	1.5		
Processing equipment	6.0		2.5	1.2			25.0				
Compressors and turbines	1.5	26.2	47.0		143.0						
Other pipeline equipment	2.2		15.0	21.5	53.8	1.9	33.0	7.4			
Construction equipment	68.0				129.2	.9	32.4			40.0	
Other			2.0	1.2	0.7			.2			

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USSR: Orders of Oil and Gas Equipment f. Western Firms

West Germany

(Million US \$)

	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>Mid-1982</u>
Total	0	1.4	95.7	79.5	515.3	1.0	68.0	9.0	97.8	666.1	150.0
Pump and gas lift equipment					1.5	.6				1.0	
Drilling and well completion equipment				74.5	38.9		10.2		60.9	7.8	70
Exploration equipment											
Processing equipment			7.0		10.5						
Compressors and turbines				57.2	443.5	.4			.2	.4	69.5
Other pipeline equipment											374.0
Construction equipment	1.4	31.5	5.0	20.8			57.8	9.0	36.7	109.8	10.5
Other										171	
										2.1	

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USSR: Crs of Oil and Gas Equipment from Western Firms

France

(Million US \$)

	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>Mid-1982</u>
Total	167.9	96.0	110.9	263.6	71.4	50.6	230.8	0	116.0	864.0	7
Pump and gas lift equipment							228				7
Drilling and well completion equipment			4.0				4.8		116.0		
Exploration equipment		15.9			54.2						
Processing equipment	68.4	3.2	77.8	227.2		26.2					
Compressors and turbines	25.0	5.0									
Other pipeline equipment	71.9	72.0	29.1	36.4	17.2				524.8		
Construction equipment										331.5	
Other	2.6										
					24.4						

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## USSR: Orders of Oil and Gas Equipme from Western Firms

(Million US \$)

## Italy

	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>76</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>Mid- 1982</u>
Total	45.7	25.2	71.3	1.1	115	97.4	6.3	42.1	37.7	720.4	24.0
Pump and gas lift equipment			5.0			3.2					
Drilling and well completion equipment										4.4	
Exploration equipment		2.0									
Processing equipment						5.0					2.0
Compressors and turbines	45.7		19.0		150			2.8		614	
Other pipeline equipment		18.9	47.3	1.1	0	89.2	6.0	39.3	37.7	102	12.0
Construction equipment							.3				
Other		4.3			5						10.0

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USSR: Orders of Oil and Gas Equipment from Western Firms

(Million US \$)

U.K.

	<u>1972</u>	<u>1972</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>Mid-1982</u>
Total	.5	.1	47.8	10.6	216.2	6.0	39.0	2.7	2.0	368.4	32.9
Pump and gas lift equipment							33.0			.2	
Drilling and well completion equipment						4.4	4.0		2.0	23.1	10.6
Exploration equipment											
Processing equipment		.1	.5			.4		1.7		42.6	
Compressors and turbines			46.1		46.5					282.1	
Other pipeline equipment	.4		1.2	10.6	169.7	1.2		1.0		18.4	22.1
Construction equipment											
Other	.1										

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## USSR: Orders of Oil and Gas Equipment from Western Firms

(Million US \$)

	Japan										Mid- 1982
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	
Total	--	--	75.8	26.0	49.5	44.4	19.4	67.1	64.2	574.8	--
Pump and gas lift equipment											
Drilling and well completion equipment								1.8		6.2	
Exploration equipment					47.5	10.8	36.2				
Processing equipment					600	1.4			6.0	95.0	
Compressors and turbines			42.8		15.5	1.0					
Other pipeline equipment			33.0	26.0	36.8	17.2	10.9	8.9		75.0	
Construction equipment					1.5	14.0	8.5		58.5	398.6	
Other					8.2			22.2			

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## USSR: Orders of Oil and Gas Equipment from Western Firms

(Million US

	Canada										Mid 1982
	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	
Total	--	--	7.8	26.0	33.0	--	53.3	16.8	--	--	7.0
Pump, gas lift equipment					24.3		40.0	8.0			
Drill and well completion equipment				6.0				1.4			
Exploration equipment				20.0							
Processing equipment					.6		4.2				
Compressors and turbines											
Offshore equipment			7.8		4.1			7.4			
Construction equipment					4.0						
Other							9.1				7.0

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(Million US \$)

## Non-Summit Western Countries

	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>Mid-1982</u>
Total	.2	--	55.9	129	17.7	18.3	7.5	15.6	--	84.5	45.3
Pump and gas lift equipment						1.5					
Drilling and well completion equipment						16.8		15.5			
Exploration equipment											
Processing equipment <sup>2</sup>				25	1.3						
Compressors and turbines			47.6								
Other pipeline equipment	.2		8.2	10.1	16.4		7.5	.1		23.0	45.3
Construction equipment										61.5	
Other											

<sup>1</sup> Excluding Soviet linepipe purchases. Series also probably does not capture purchases of Western services or orders for replacement and spare parts, which tend to be small and ad hoc.

<sup>2</sup> Includes orders of Soviet natural gas and petroleum refining and processing facilities.

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